

ABSTRACT

A power shaft including a belt retaining geometry is provided according to an embodiment of the invention. The power shaft includes a shaft including a normal belt position portion adapted for receiving a belt and a reduced diameter portion formed on the shaft and located adjacent to the normal belt position portion. The belt can move into the reduced diameter portion of the power shaft during operation and the reduced diameter portion creates an alignment tension force on the belt that operates to return the belt to the normal belt position portion.